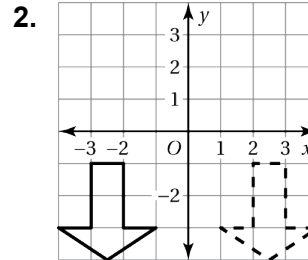
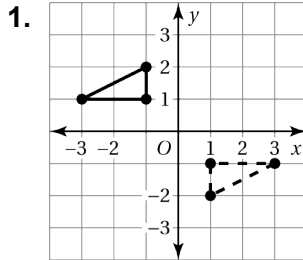


2.4 Practice A

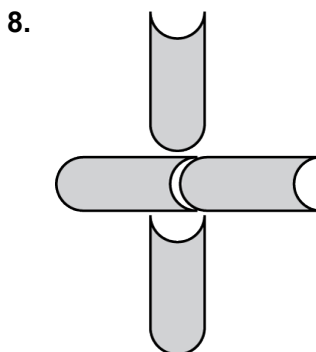
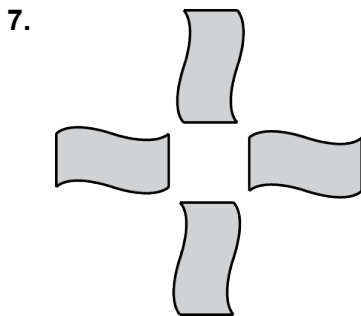
Tell whether the dashed figure is a rotation of the solid figure about the origin. If so, give the angle and direction of rotation.



The vertices of a triangle are $A(-4, 1)$, $B(-2, 2)$, and $C(-1, 1)$. Rotate the triangle as described. Find the coordinates of the image.

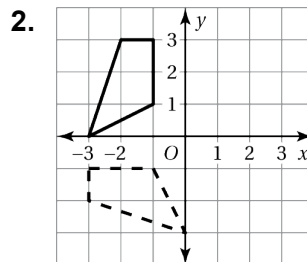
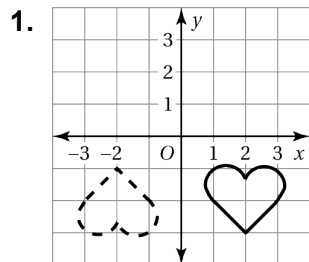
3. 270° clockwise about the origin
4. 90° counterclockwise about the origin
5. 90° counterclockwise about vertex A
6. 180° about vertex C

Tell whether the figure has rotational symmetry.



2.4 Practice B

Tell whether the dashed figure is a rotation of the solid figure about the origin. If so, give the angle and direction of rotation.



The vertices of a trapezoid are $A(1, 1)$, $B(2, 2)$, $C(4, 2)$, and $D(5, 1)$.

Rotate the trapezoid as described. Find the coordinates of the image.

3. 90° clockwise about the origin
4. 270° counterclockwise about the origin
5. 90° clockwise about vertex A
6. 180° about vertex D

Tell whether the figure has rotational symmetry.

